

### **Abstract of the Disclosure**

Methods and apparatus for freezing a product. The product is frozen in a treatment container which contains a vibrating support. The vibrating support is capable of receiving a film of a cryogenic liquid. A heated temperature probe, located just before the outlet of the treatment container, measures the temperature at that location. The supply system for the cryogenic liquid has a proportional valve. A data acquisition and processing unit receives the temperature information and controls the opening of the proportional valve.